



# DEFENSE LOGISTICS AGENCY

AMERICA'S COMBAT LOGISTICS SUPPORT AGENCY



## Evolving Parts Standardization

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# Scope of DLA Customer Support

- Supports nearly 1,600 weapon systems
- Provides 84 percent of all Military Services' repair parts
- Managing 4.8 Million national stock numbers via eight supply chains
- Processes an average of 230,000 requisitions a day
- Awards an average of 11,000 contract lines a day
- Provides 100 percent of:
  - Fuels
  - Food
  - Clothing and Medical Supplies
  - Construction Material
- Worldwide Presence:
  - More than 25,000 civilian, active duty, and reserve employees
  - 28 countries and 48 states (except Vermont and Iowa)

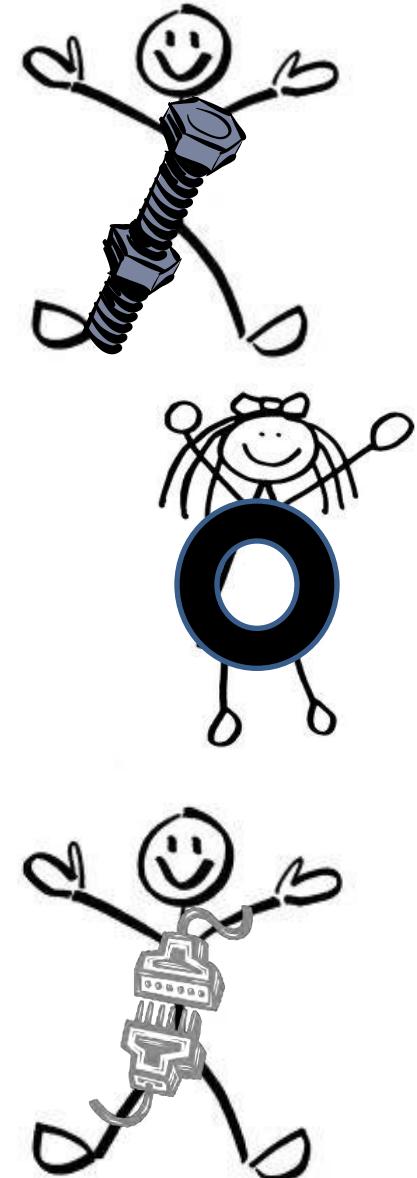




# Parts Proliferation Problem

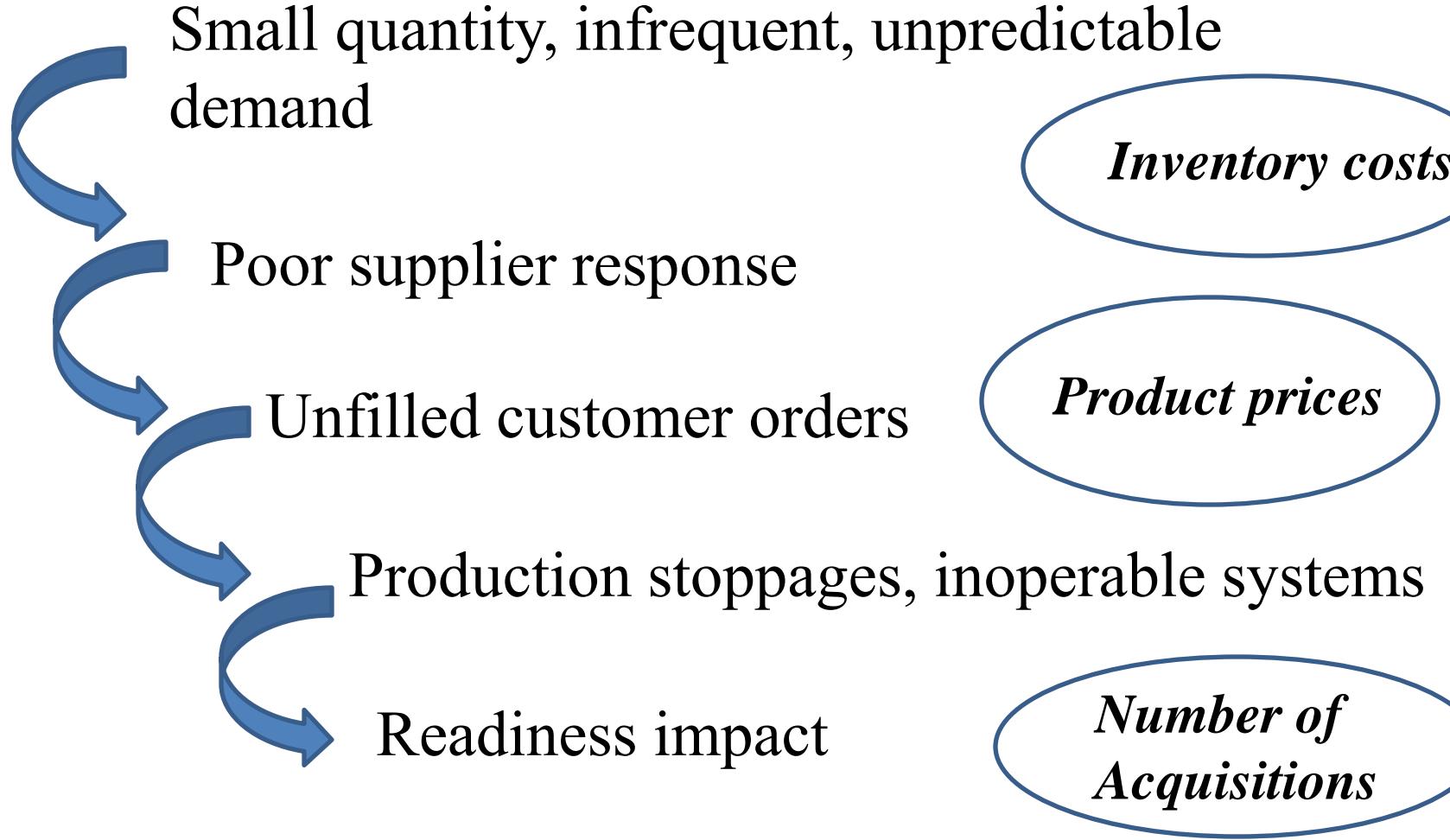
*What do 180,000 connectors, 423,000 fasteners, and 44,000 O-rings have in common?*

- DLA managed items in the Federal catalog
- 70% to 80% are not routinely purchased
- Vast majority have very limited description
- Thousands identified with non-manufacturer part numbers
- Hundreds of exact or functional duplicates





# Impact of parts proliferation on Acquisition





# Ability to impact parts proliferation

- Limited at DLA
  - Legacy systems with MIL-STD-965 requirements
  - Few parts review for MIL-STD-3018
- Standardization decisions happen during design
  - System integrators, subsystem manufacturers, & Service design control activities
  - Help designers use existing parts when appropriate
- Body of data is huge where there are part proliferation issues
- Item reduction is not effective



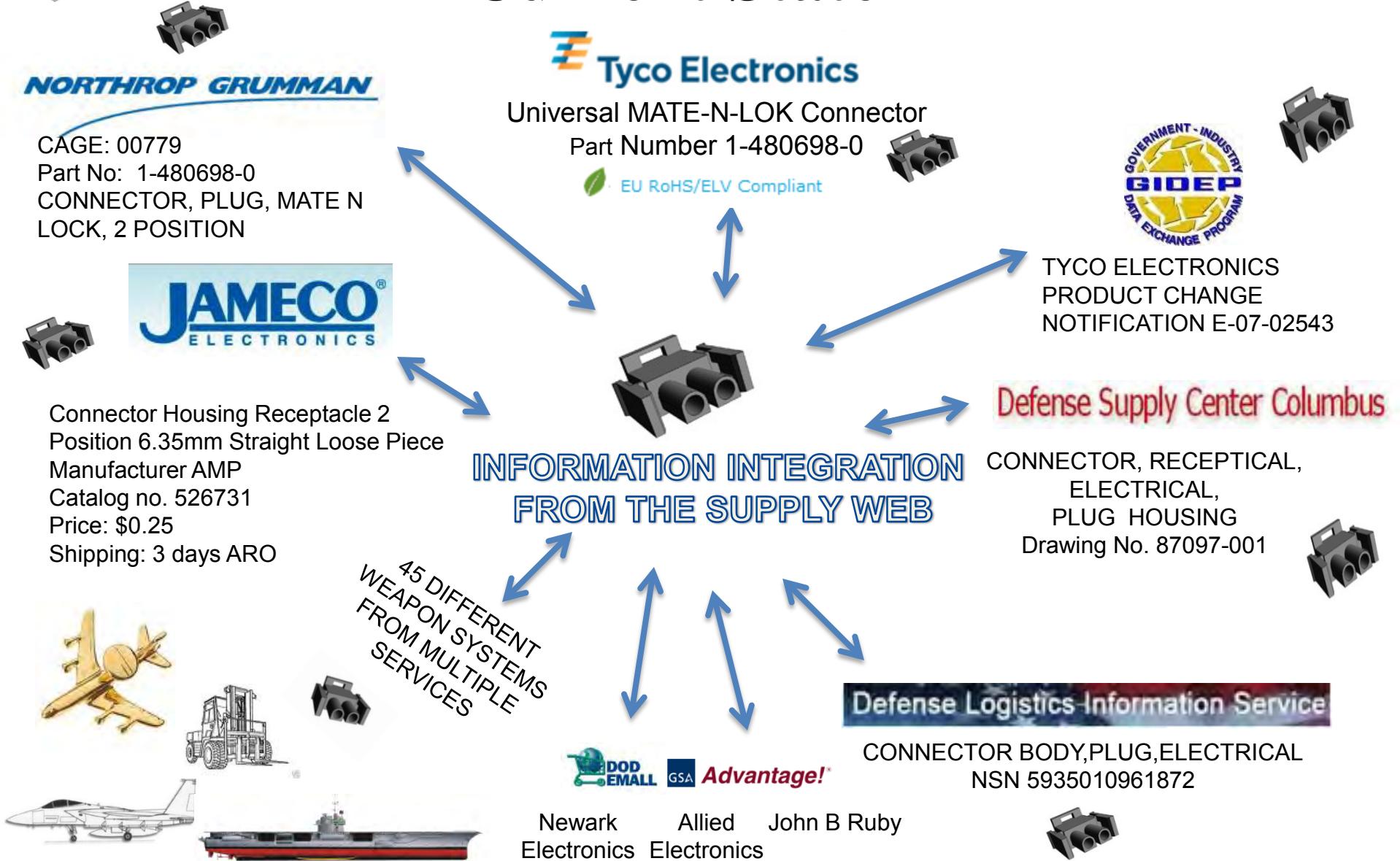
# Three Pilot Projects

What we've learned . . .

- Parts proliferation is not government unique
- We can
  - collaborate with industry SMEs to identify significant characteristics for parts selection
  - share data across DoD & company lines to develop more complete item descriptions
  - identify exact duplicates, functional equivalents, and additional sources of supply
- The technology is a “game changer”



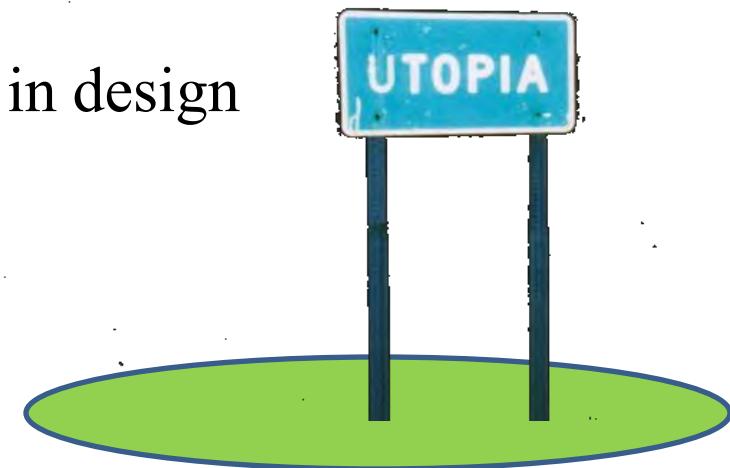
# Current State





# Ideal Future State

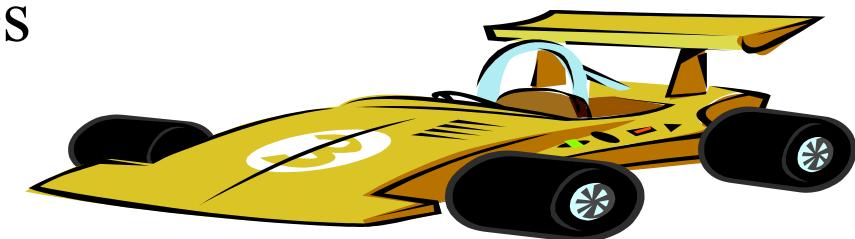
- Single database of connectors shared & maintained by DoD and defense industry
- Defined set of core characteristics
  - Commonly understood
  - Significant for parts selection
  - Values populated for items in the database
  - Associated information on usage, availability, price, environmental characteristics
- Sufficient variety of items for flexibility in design selection
- Business rules for access and sharing





# Time for a new model . . .

- More open data sharing for targeted commodities
- Access to more complete item information for parts selection
- Standardization by natural selection
  - Performance characteristics
  - MIL-STD-3018
  - Availability, usage on other systems, environmental preferences





# Next Steps

DoD Connector  
Standardization  
Working Group

- DSPO letter to Standardization Executives
- Common use connector parts lists
- Data sharing infrastructure
- Process for selection of future preferred connectors

DLA R&D  
project on  
supporting  
infrastructure

- Database
- Ontology
- Role based security
- Data translation
- Communication channels
- Workflow management